



# **POST-GRAD DIPLOMA/MPHIL IN ENVIRONMENTAL MANAGEMENT**

A MULTI-DISCIPLINARY PROGRAMME WITH A UNIQUE SELECTION OF  
CORE AND CHOICE MODULES FROM FOUR FACULTIES

**An innovative programme for a new generation of environmental managers**

*Practical, hands on tuition based on solid theoretical foundations*

## PROGRAMME OUTCOMES/AIMS

This structured multi-disciplinary programme has been jointly designed and developed by the *School of Public Leadership* ([www.spl.sun.ac.za](http://www.spl.sun.ac.za)), the Departments of *Philosophy*, *Economics*, *Public Law*, and *Geography and Environmental Studies*. The main aims of this taught, multi-disciplinary programme is to develop:

- management skills that will reconcile sustainable development within the limitations of South Africa and Africa's valuable and sensitive environment and the institutional frameworks taking responsibility for it;
- abilities to formulate, interpret, implement and monitor environmental policy in the public and private sectors of Southern Africa;
- understanding of the approaches, processes and structures of environmental management in Southern Africa.

## COMPOSITION OF THE POST GRAD DIPLOMA PROGRAMME

The programme will be presented formally during the scheduled contact sessions at Stellenbosch University on a modular basis with assignment completed during the interim periods between blocks. All eight (8) modules need to be completed within one (1) year. You only have to be in Stellenbosch during the contact sessions. Please note that attendance of these sessions is **compulsory**

- A set of eight (8) core modules (8x1 week sessions) distributed over one year will be taught by leading experts in their fields. A teaching methodology that combines formal teaching, case studies, facilitated discussion learning and self-managed learning in a way that allows each participant to shape their own study focus;

You will eventually be required to complete assignments in which you have integrated the knowledge that you have acquired from the different modules. Large portions of the programme involve self-study. You will therefore be required to complete assignments at home in preparation for lecture sessions or as follow-ups after returning home from the contact sessions at Stellenbosch.

NB: Students must attend the full week (Monday-Friday) of classes at the Stellenbosch Main Campus.

NB: Elective modules take place at the Lynedoch campus and runs over a period of six days (Monday – Saturdays)

NB: No distance education is available.

### Modules with their relative weighting within the programme:

Programme Code	
1 Environmental Issues (15 credits)	5 Environmental Governance (15 credits)
2 Environmental Ethics (15 credits)	6 Geographical Information Systems in Environmental Analysis and Management (15 credits)
3 Environmental Economics (15 credits)	7 Electives (15 credits X 2)
4 Environmental Law (15 credits)	= 120 CREDITS

## CORE MODULES

### 1. Environmental Issues (School of Public Leadership)

This module aims to provide students with an understanding of the most important environmental issues of our time. We will strive to ensure that students develop a level of awareness of the causes and the limitations of our understanding of environmental processes. Central themes that will be addressed include:

- Soil loss through wind and water
- Water quantity and quality
- Pollution on large and small scales
- Global warming
- Nuclear radiation
- Biological invaders
- Fragmentation and management of animal populations
- Loss of biodiversity
- Disruption of life supporting systems
- The economics of environmental degradation

### 2. Environmental Ethics (Department of Philosophy)

The central aim of this module is to enable students to recognise, describe, analyse and critically evaluate the different ethical models and value systems that underpin environmental degradation and environmental conflict, and also the different ethical models and value systems informing different approaches to environmental management and conservation. Central themes that will be addressed include:

- Different philosophical models for the conceptualisation of environmental problems
- Different approaches to environmental ethics (for example, strong anthropocentrism, weak anthropocentrism, stewardship, animal rights, animal liberation, biocentric individualism, biocentric holism, ecocentrism, deep ecology, ecofeminism, social ecology, bioregionalism and environmental pragmatism)
- Environmental ethical values and principles, for example sustainability, precaution, ecological integrity
- The relationship between environmental ethical values and other values like economics, efficiency, freedom, equality and justice
- The implications of environmental ethical values for politics, economics and everyday life
- The ethical basis of environmental conflict resolution
- The ethical basis of environmental policy and management in a developing country
- The ethical implications of risk and ignorance
- Case studies

### 3. Environmental Economics (Department of Economics)

The module aims to provide students with an understanding of the economic causes of environmental degradation and how to apply economics in environmental management. Central themes that will be addressed include:

- The inter-linkages between economic activity and the natural environment
- Efficiency and sustainability as criteria for decision-making
- The economic values of the environment and methods to determine them
- The economics of pollution: using the market to control pollution
- Economic explanations for the over-exploitation of renewable resources (e.g. fisheries)

- Cost-benefit analysis as a tool for decision-making and the problem areas in applying cost-benefit analysis to environmental issues
- The particular nature of environmental concerns in developing countries, for example the interlinkages between poverty and environmental degradation.

#### **4. Environmental Law (Department of Public Law)**

Central themes that will be addressed include:

- General introduction to law.
- The nature, scope and classification of environmental law.
- The sources of environmental law.
- Historical perspective of the development of environmental law.
- The development of new policy in relation to the environment and the resulting reform of environmental law.
- International environmental law.
- The environment and the Constitution.
- The legislative and administrative authority of national, provincial and local spheres of government.
- Implementation/administration of environmental law.
- Framework environmental legislation: The National Environmental Management Act and its predecessor, the Environmental Conservation Act.
- Focus on a selection of recently introduced environmental reform legislation.

#### **5. Environmental Management (School of Public Leadership)**

A selection from the following central themes will be addressed:

- Environmental management in the public management context: functions, competencies, applications and techniques
- Environmental policy: environmental politics, the use of policy analytical methods and techniques for the evaluation of environmental policy, policy instruments for environmental management, international environmental policy, the process and outcome of environmental policy reform in South Africa, the green papers, white papers and legislation
- Planning: the use of planning frameworks and techniques in environmental management, town and regional planning philosophy and theory, land control and zoning, planning law and procedures, development policy and the integrated development planning process in South Africa
- Institutional and organisational aspects of environmental management: centralisation and decentralisation, the problem of co-ordination and integration, sectoral, hierarchical, organisation types and political approaches/decisions in the development of environmental management systems, co-operation structures, networks and public-private partnerships as examples of organisational innovation.
- Environmental leadership: leadership challenges in modern community and organisational environments and decision-making processes, environmental leadership profiles and the development of environmental leadership competencies
- Environmental evaluation and control: the framework and principles of Integrated Environmental Management (IEM). Strategic Environmental Evaluation (SEA), development and use of environmental indicators, environmental impact assessment, environmental auditing, ISO 14 000 and other environmental standards and assessment of environmental danger and risk

## 6. Geographical Information Systems in Environmental Analysis and Management (Department of Geography and Environmental Studies)

Central themes that will be addressed include:

- The principles of Geographical Information Systems (GIS)
- Data gathering, correction, exchange and maintenance
- The organisation and management of GIS in organisations
- The Idrisi GIS package: characteristics and use
- GIS application: Multi-criteria evaluation and spatial decision-making
- GIS application: Change and time series analysis of environmental phenomena
- GIS application: Analysis of environmental danger and risk
- GIS application: Analysis of special environments (mountainous areas)
- GIS application: Analysis of special environments (coastal areas)
- GIS application: Socio-economic and urban environmental problems
- GIS application: Practical project management/case studies

### ELECTIVES (Lynedoch Campus)

The elective modules is usually negotiated between individual candidates and lecturers according to the chosen or specified specialisation of the candidate. It might entail a deepening of research in an existing module or a broadening of exposure to a related area of study. Students may select to do one of the modules on offer from the other Programmes offered by the School of Public Leadership or from any other Programme at the University of Stellenbosch on condition these have been approved by the Programme Coordinator.

Electives (x2) can be chosen from the Sustainable Development programme:

Sustainable Development	15 Credits
Applied Economics	15 Credits
Development Planning & Environmental Analysis	15 Credits

### Sustainable Development

**Aim:** This module will be the foundation stone of the entire programme. It will provide course participants with an overview of the most significant global environmental, social and economic challenges that face humankind, and an insight into the solutions suggested by the universal commitment to sustainable development. Course participants will be able to recognise, understand and apply the divergent interpretations of sustainable development that currently exist. The main themes will include:

- review of the most important environmental problems, such as climate change, waste and pollution, biodiversity destruction, and the general contradiction between resource use and carrying capacity;
- review of the most significant social challenges, including demographic change and expansion, pandemics, poverty, endemic violence, migration and urbanisation;
- review of the key global economic trends that currently determine and shape the dynamics of national and local economies;
- introduction to the history of, and different approaches to, the notion of sustainable development;
- case studies of sustainable development in practice at the policy and project levels.

### **Development Planning & Environmental Analysis**

Aim: this module will provide participants with an understanding of the links between science, knowledge, evidence-based policy and action for sustainability and the role of planning and environmental techniques, assessments and analyses in this process. An overview will be given on extracting, processing and presenting data; demographic and socio-economic, poverty and inequality assessments, environmental impact analysis (EIA), strategic environmental assessment (SEA), sustainability assessments and sustainability indicators. Cost-benefit analysis, multi-criteria decision analysis, transport, infrastructure, regional and urban economic analyses will also be addressed. The focus of the module will be on exploring new techniques for sustainability, of which the main themes are:

- knowledge- policy-action for sustainability
- socio-economic analysis and profiling of communities for integrated development planning
- social, poverty and inequality analyses, including participatory and action research
- “pre-design” environmental analysis, “post-design” environmental impact assessment (EIA); strategic environmental analysis (SEA) and sustainability assessments
- sustainability and ecological indicators, including the ecological footprint of a city, material flow analysis and alternative economic assessments

### **Applied Economics**

Aim: This module aims to introduce participants to the basic concepts of and insights into the crafty art and artistic craft of the orthodoxies and heterodoxies of economics in the theoretical and practical realms. The grain and texture of the course is admittedly coarse, connected to the breath/width of the module and its orientation towards the paradigms and practices of economic planning, generally, and development planning, more specifically. The elaboration – at different and linked spatial and institutional scales – of theories, policies, programmes, plans and other interventions to further the objectives and installation of pro-poor economic growth and distributional paths/trajectories/regimes constitutes the foundation/anchor of this module. Given these parameters and scope, the module grapples with a multiplicity of development planning problematic spanning the role of the state (national, provincial and local) in and the interconnections between economic and human development, refracted through the lenses of poverty eradication, redistribution and socio-economic empowerment in and beyond market-conditioned/mediated formats. Hence, the module hones in on the developmental state in its national, regional and local manifestations and the form and materiality of its interventions/activities related to macroeconomic management, employment generation and industrial development, income and asset transfer programmes, human capability enhancement, regional and local economic and infrastructure development (and more). The following broad themes are dealt with in the module:

- Introduction to Economics: Orthodoxies and Heterodoxies
- The Role of the State in Economic Development: Historical Overview
- Macroeconomic Policy and Reform: Evolution, International (Dis)Consensus and the National Trajectory

### **COMPOSITION OF THE MPHIL ENVIRONMENTAL MANAGEMENT PROGRAMME** **PLEASE NOTE: THIS PROGRAMME IS ONLY AVAILABLE AS FROM 2014**

Full Research Programme (100% thesis)

- Research Methodology Course **plus**
- Research component: 180 credits (Integrated thesis written in accordance with the requirements of the University and the Supervisor (± 40 000 words [± 120 pages]))

## **METHODS OF TUITION**

During the block sessions an interactive teaching method will be used that will consist of formal lecturing, facilitated discussion learning, case method learning and various kinds of structured group work. The main aim of this teaching approach is to ensure that members of the group learn from each other and establish strong working relationships. The facilitated discussion learning and case learning is designed to ensure that participants complement reading and listening with experiential learning that builds the capacity for sound judgement and practical wisdom. Between block sessions, course participants who return to their places of work will need to work largely on their own and connected to others via email where this is practically possible. It should be assumed that approximately 100 hours of self-managed work time will be needed between blocks for reading and writing up of assignments.

## **LANGUAGE OF INSTRUCTION**

The language of instruction during tuition, discussions and presentations will be in English. Assignments, tests and examinations may be written in Afrikaans.

## **APPROACH**

Students will be encouraged to develop, test and discuss their own study material, practical applications and evaluations within the framework of the areas within which they are professionally employed (or aim to be employed).

## **ASSESSMENT: EXAMINATION REQUIREMENTS AND EVALUATION**

This structured part time study programme consists of separate modules. Written theoretical, practical and examinations might be required in the respective modules.

- To pass a module, a student must achieve a mark of 50%
- To pass a module with distinction, a student must achieve a mark of 75%
- To pass the programme, an overall average of 50% is required
- To pass the Post Grad Diploma in Environmental Management with distinction (cum laude), a student must achieve a 75% average in each module

## **ENTRY REQUIREMENTS**

Candidates may submit written applications to enter this taught Post Grad Diploma in Environmental Management if they are in possession of one of the following qualifications:

- A Bachelor's degree with a 60% pass mark in one of the following main subjects: Geography and Environmental Studies, Sociology, Economics, Public and Development Management, Geology, Botany, Zoology, Agricultural Economics, Transport Economics and Logistics, Forestry, Nature Conservation, Civil Engineering and Architecture, Surveying or any other equivalent field. Relevant work experience may be considered on application; OR
- A BTech degree in Town and Regional Planning or similar relevant subject fields; OR
- A four-year Bachelor's degree in Town and Regional Planning

**It is expected of students to be computer literate.**

## SELECTION AND APPLICATIONS

The normal entry requirements for study at Stellenbosch University apply. Only 30 students are accepted into the programme. The programme selection committee will convene during November. Applicants will be informed towards the end of November of the outcome of the selection process. Late applications will be considered until 30 October 2012.

Once a student has been selected and accordingly informed that his application has been successful it will be required of him/her to pay a deposit fee of **R2000 to confirm his/her place in the programme**. This fee will be deducted from the registration fee.

(See also registration)

Applications close on 28 September 2012 for South African applicants and please provide all the required and any other relevant information with your application to help us with the selection process. Please read the instructions carefully and make sure that your academic transcripts are attached to your application. **You are also required to complete the School of Public Leadership's form** available on our website [www.spl.sun.ac.za](http://www.spl.sun.ac.za) or contact the programme administrator at email address [ijs3@sun.ac.za](mailto:ijs3@sun.ac.za) or telephone number +27 (0)21 808-2151.

The closing date for **International** applicants is **30 August 2012**. Please contact the International Office for assistance with your application or for further information visit their website at <http://www.sun.ac.za/international>. Their contact details are email: [interoff@sun.ac.za](mailto:interoff@sun.ac.za) and telephone number +27 (0)21 808 2565. Note that International students will have to adhere to a different fee structure also obtainable from the International Office.

**Want a quote?**

**Follow this link:**

<http://www0.sun.ac.za/international/provisional-budget-request>

## REGISTRATION

It will be expected of all students to be registered already once they reach campus on their first day of orientation.

The additional registration fee must be paid into the University's account no later than end of November so that the registrations can take place while students are still off campus. Once you reach campus, all the administration pertaining to registration has already been completed.

## BURSARY INFORMATION

Please follow this link

<http://www0.sun.ac.za/international/postgraduate-student-funding>

## ACCOMMODATION

Students will be responsible for their own accommodation arrangements. There is a wide range of accommodation available in Stellenbosch, from basic backpacker accommodation to luxury guest houses. More information is available from the Stellenbosch Tourism and Information Bureau. Their contact details are as follows: Tel: +27 (0)21 883 3584; Email: [eikestad@iafrica.com](mailto:eikestad@iafrica.com) and Website: <http://www.istellenbosch.org.za>. It is advisable to book in advance as accommodation in Stellenbosch is in great demand.

## TUITION FEES/PGD

**Fees for 2013** are ±R28 000 for the 1<sup>st</sup> year of registration. If the programme is not completed within one year a continuation fee of ±R4 500 per annum for the 3<sup>rd</sup> and further years of registration is payable. **Please note that the fees for 2013 will only be confirmed in October 2012.** There is an additional cost for notes and excursions (approximately R1 500 per year).

*These are provisional amounts (for budgeting purposes only and not binding on Stellenbosch University or any of its employees/representatives), fees for 2013 will only be finalised in October of 2011. Accommodation fees and meals are not included in the course fees.*

**Fees must be paid into the following University of Stellenbosch bank account: University of Stellenbosch, ABSA, Stellenbosch Branch, Account no.: 041 020 4789, branch Code 632005, with your student number/surname as the University's reference number.**

If you DO NOT complete your studies in the allotted time (1 year full-time) a **continuation fee** will be charged per year. However, continuation will not be automatically granted. Continuation is a privilege that is only granted under exceptional circumstances.

Students will be charged for (a) modules that they repeat; (b) additional modules over and above the 8 core modules; and (c) any additional fees that their electives may entail.

**The University, as represented by the duly authorised decision-making body, reserves the right to amend all fees payable to the University.** As a result, the above quoted fees may change by the time that registration takes place in January 2013. The School of Public Leadership and the staff associated with the management of this programme, cannot be held accountable if for any reason the above quoted fees are changed by a duly authorised University decision-making body.

**Payment Options:** The registration fee (first instalment on Class Fees) is payable on the day of registration (**±R6 500 for 2013**). Following registration, a full account for the year is sent out to every student.

Students will be charged for (a) modules that they repeat; (b) additional modules over and above the required 8; and (c) any additional fees that their electives may entail. **(The Council reserves the right to amend without notice all fees payable to the University)**

**Payment Options:** The registration fees (first instalment on Class Fees) is payable on day of registration (**±R6 500 for 2013**). Following registration, a full account for the year is sent out for every student. Students have the following payment options: 1 *Standard Payment Option* – in 2 instalments (75% of the total amount on or before 30 April and the outstanding balance on or before 31 August); 2 *Payment by Debit Order System* – 7 monthly instalments under the University's debit order system (first instalment payable before 1 May). Enquiries: Division for Student Fees Tel: +27 (0) 21 808-4519.

## GENERAL ENQUIRIES

Student Fees +27 21 808 4913/4521

University Accommodation (Long-term) (www.sun.ac.za) +27 21 808 3892

**CONTACT DETAILS**

For further information and application forms, contact:

**Jennifer Saunders** (Administration of the PGD/MPhil in Environmental Management Programme)

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